Use Attainability Analysis

for

WBID 3142 Ash Ditch

Submitted by Missouri Department of Natural Resources Staff

To Missouri Department of Natural Resources Water Protection Program

Field Data Sheets for Recreational Use Stream Surveys ZU05 JUL 11 PM 1: 05

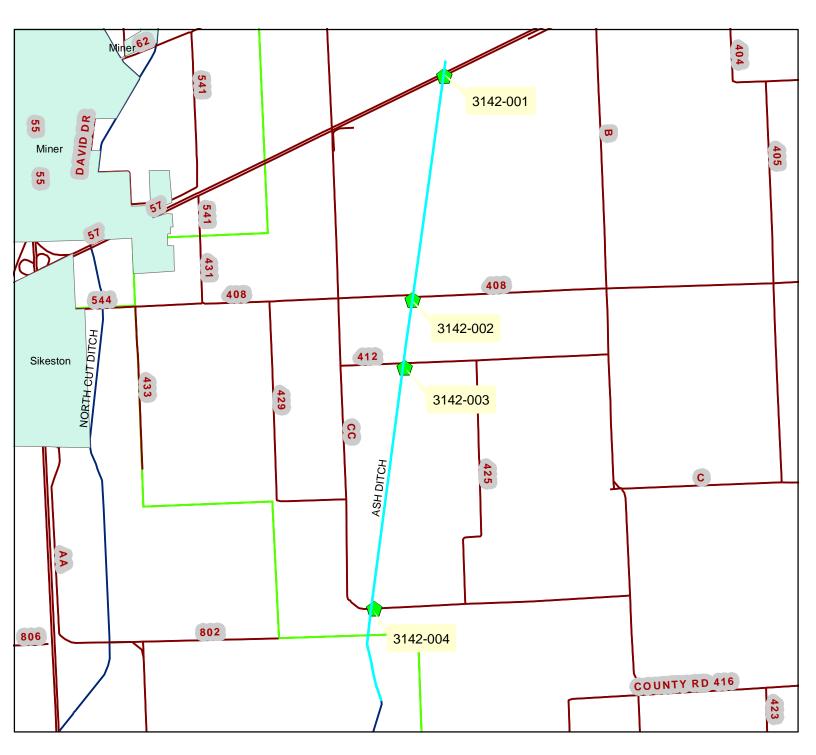
Data Sheet A - Water Body Identification

WATER PROTECTION PROGRAM

Missouri WBID #: 3142 County: COASSASSADO: Upstream Legal Description: Downstream Legal Description: Upstream Coordinates: 36.89369 -89.47694 ap Downstream Coordinates: 36.83556 - 89.49941 ap Discharger Facility Name(s): Discharger Permit Number(s): Number of Sites Evaluated: 4
Upstream Legal Description: Downstream Legal Description: Upstream Coordinates: 36.89369 -89.47694 ap Downstream Coordinates: 36.83556 -89.48941 ap Discharger Facility Name(s): Discharger Permit Number(s):
Downstream Legal Description: Upstream Coordinates: 36.89369 -89.47694 ap Downstream Coordinates: 36.83556 -89.48941 ap Discharger Facility Name(s): Discharger Permit Number(s):
Upstream Coordinates: 36.89369 -89.47694 ap Downstream Coordinates: 36.83556 -89.48941 ap Discharger Facility Name(s): Discharger Permit Number(s):
Downstream Coordinates: 36. 83556 - 89. 49941 or Discharger Facility Name(s): Discharger Permit Number(s):
Downstream Coordinates: 36. 83556 - 89. 49941 or Discharger Facility Name(s): Discharger Permit Number(s):
Discharger Facility Name(s): Discharger Permit Number(s):
Number of Sites Evaluated
Number of Sites Evaluation. 4
Name of Surveyor and Telephone Number: R. Duchrow 573-751-6623
Organization: Missouri Department of Natural Resources
Position: Stream Biologist

____Date: "1/12/05

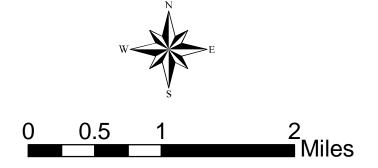
Ash Ditch (C) #3142 Mississippi County HUC8 = 08020201



Legend

RoadsMunicipal BoundaryClassified Waterbodies

Counties



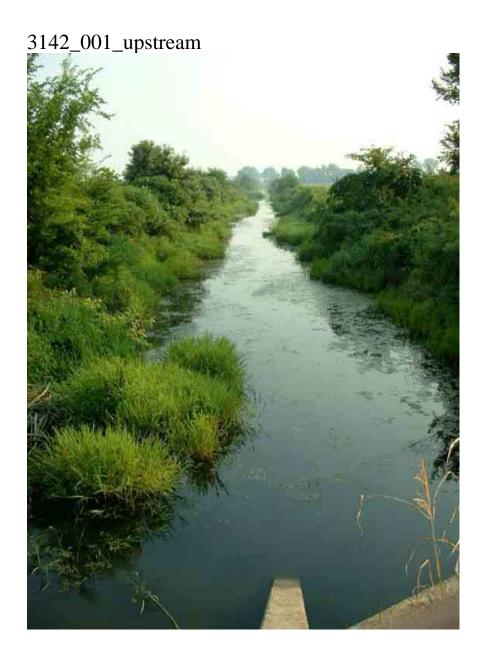
Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

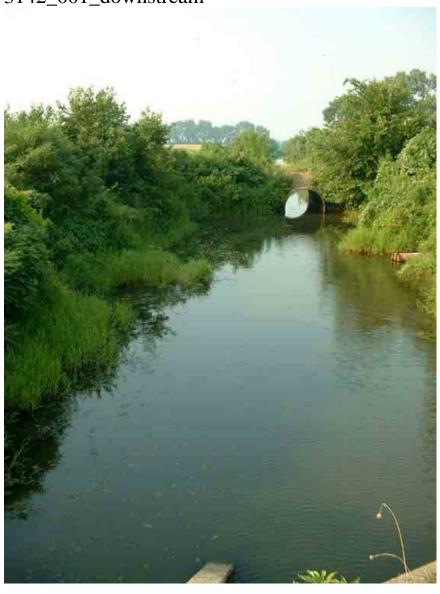
Missouri WBID #: 310	Missouri WBiD#: 3142-001			Site Location Description:			
Site GPS Coordinates: 31		₁₇ ७९५	I-57 BR				
Date & Time: 7/9/03	0745	^r5·	Facility Name:				
Personnel: R. Duchrow	Personnel: R. Duchrow						
Current Weather Condition	Current Weather Conditions: Cleare - Waz-			ons for Past 7 days: Chear	Lysner Drough		
	Photo Ids: Upstream: Downstream:						
<u> </u>	<u> </u>	(61)	6,- OD 447				
Uses Observed*:				Y			
Swimming	Swimming Skin diving SCI			☐ Tubing	☐ Water skiing		
☐ Wind surfing	☐ Kayaking	Bos	ating	☐ Wading	Rafting		
☐ Hunting	☐ Trapping	☐ Fisi	hing	None of the above	Other:		
Describe: (include numbe							
Surrounding Condition	18*: (Mark all that pro	omote or im	pede recreational u	ises. Attach photos of evide	nce or unusual		
Surrounding Condition	IS*: (Mark all that pro		pede recreational u	uses. Attach photos of evide	nce or unusual		
Surrounding Condition items of interest.)	· · · · · ·		onservation lands	-	<u>, </u>		
Surrounding Condition items of interest.)	Playgrounds State parks	☐ MDC co	onservation lands	Urban areas	☐ Campgrounds ☐ Stairs/walkway		
Surrounding Condition items of interest.) City/county parks Boating accesses No trespass sign	Playgrounds State parks Fence	☐ MDC co	onservation lands	Urban areas Nature trails	☐ Campgrounds ☐ Stairs/walkway		
Surrounding Condition items of interest.) City/county parks Boating accesses	Playgrounds State parks Fence	☐ MDC co ☐ National ☐ Steep sk	onservation lands	Urban areas Nature trails	☐ Campgrounds ☐ Stairs/walkway		
Surrounding Condition items of interest.) City/county parks Boating accesses No trespass sign Evidence of Human Us	☐ Playgrounds ☐ State parks ☐ Fence ☐	☐ MDC co ☐ National ☐ Steep sk	nservation lands forests	Urban areas Nature trails Other: Rural - C	Campgrounds Stairs/walkway		

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Page Two – WBID #	3142-001	Data Sheet	B - Site Character	ization		
Stream Morphology Upstream View P		nensions:				
Riffle Width (f		Length (ft):	Avg. Depth (ft):	Max. Depth (ft):	
Run Width (f	t): as'	Length (ft):	Avg. Depth (ft): 2.5	Max. Depth (ft):	3′
Pool Width (f		Length (ft):	Avg. Depth (Max. Depth (ft):	
Flow Present?	☐ Yes [₹No	Estimated (ft	³ /sec):		
Downstream View	v Physical I	Dimensions:				
☐ Riffle Width (f	t):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):	
Run Width (1	t): 3∞′	Length (ft):	Avg. Depth (ft): 3,5'	Max. Depth (ft):	3'+
Pool Width (1	t):	Length (ft):	Avg. Depth (Max. Depth (ft):	_
☑ Flow Present?	Yes [∃ No	Estimated (ft	³ /sec):		
	<u></u>		8 x x x x 2 2 6 8 .		. 20	Mr
Water Characterist Odor:	ICS^: (Mark al ☐ Sewage	II that apply.) Musky	☐ Chemical	None	Other:	
Color:	Clear	Green	Gray	Milky	Other:	
Bottom Deposit:	Sludge	☐ Solids	Fine sediments	None	Other:	-
Surface Deposit:	Oil	Septent of G	5^ ☐ Foam	☐ None	Other:	
*This information is not comprehensive understandecision on the recreation I, the undersigned, datasheet is true an	to be used sole ding of water of use analysis b hereby affir	ly for removal of a conditions. Consecut may point to co	recreational use design quently, this information nditions that need furth	nation but rather n is not intended er analysis or th	is to provide a more d to directly influence at effect another use.	a
Signed:			Date:	#101-~		
Organization: Misson	ıri Departme					P-L-1970+LL4



3142_001_downstream



Data Sheet B - Site Characterization

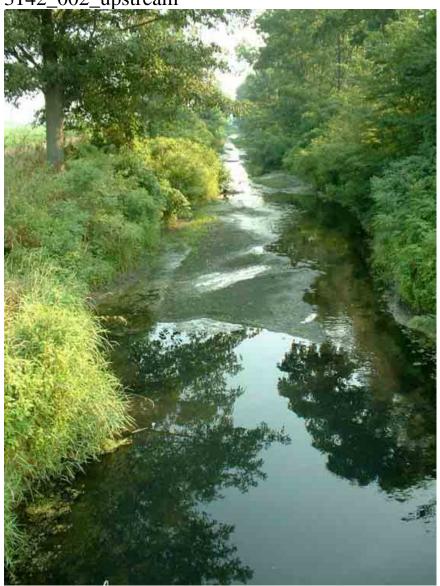
(A separate data sheet must be completed for each site)

310	Missouri WBID #: 3142-00				Site Location Description:			
Site GPS Coordinates: 3		18213	CO RD 408 BR					
Date & Time: 7/9/05			Facility Name:					
Personnel: R. Duchrow			Permit Nu	nber:				
Current Weather Conditions:			Weather C	onditio	ns for Past 7 days: Chear	- wear Drawfat		
Photo Ids: Upstream:	Transport of the transp			Other:				
- (0	76-08411	(0)	08001					
Uses Observed*:				····				
Swimming	Skin diving	☐ sci	JBA diving		☐ Tubing	☐ Water skiing		
☐ Wind surfing	☐ Kayaking	Bos	ating		Wading	Rafting		
Hunting	Trapping	☐ Fisl	hing		☑ None of the above	Other:		
Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual								
Surrounding Condition		romote or im	pede recreati	onal us	es. Attach photos of evide	ence or unusual		
Surrounding Condition items of interest.)	18*: (Mark all that p	romote or im	pede recreati	onal us	-			
Surrounding Condition			pede recreati		es. Attach photos of evide	nce or unusual		
Surrounding Condition items of interest.)	18*: (Mark all that p		nservation la		-			
Surrounding Condition items of interest.)	18*: (Mark all that p	☐ MDC co	nservation la	nds	Urban areas Nature trails	Campgrounds Stairs/walkway		
Surrounding Condition items of interest.) City/county parks Boating accesses	18*: (Mark all that pr Playgrounds State parks Fence	☐ MDC co	nservation la	nds	Urban areas Nature trails	Campgrounds Stairs/walkway		
Surrounding Condition items of interest.) City/county parks Boating accesses No trespass sign	18*: (Mark all that pr Playgrounds State parks Fence	☐ MDC co ☐ National ☑ Steep skt	nservation la	nds	Urban areas Nature trails	Campgrounds		
Surrounding Condition items of interest.) City/county parks Boating accesses No trespass sign Evidence of Human Us	Playgrounds Playgrounds State parks Fence	☐ MDC co ☐ National ☑ Steep sko	nservation la forests	nds	☐ Urban areas ☐ Nature trails ☐ Other: ☐ Cro	Campgrounds Stairs/walkway		

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

D T 11/E		42-00	Z. Data Sho	eet B -	Site Characte	rization		
Page Two – WE	MD #_	 :						
Stream Morpho	ology:							
Upstream Vi	ew Phy	sical D	imensions:		— · · · · · · · · · · · · · · · · · · ·		· ·	
Riffle Wi	idth (ft):	·	Length (ft):		Avg. Depth	(ft):	Max. Depth (ft):
⊠Run Wi	idth (ft):	_ ao	Length (ft):	600	Avg. Depth	(ft): o.'1'	Max. Depth (ft): 2'
Pool Wi	idth (ft):		Length (ft):		Avg. Depth		Max. Depth (ft):
☐ Flow Pro	esent?	Yes Yes	□No		Estimated (f	t³/sec): 3-5,	દ્મી ક	
Downstream	View l	Physica Physica	l Dimensions:					
☐ Riffle W	idth (ft);		Length (ft):		Avg. Depth	(ft):	Max. Depth (ft):
☑ Run W	idth (ft):	20	Length (ft):	200°	Avg. Depth	(ft): 0.5'	Max. Depth (ft): 2'
P∞l W	idth (ft):	3o′	Length (ft):		Avg. Depth		Max. Depth ((ft): Ч
Flow Pro	esent?	√Yes	□ No		Estimated (f		c2.a	
Substrate*: (Th)				
_ უბ % Co	bble	20	% Gravel	<u> 40 %</u>	Sand (e	. % Silt	% Mud/Clay	% Bedrock
A ayatia Vaiata	tion*.	/4						1.7
Aquatic Yøgeta	, <u></u>	(note and	Munit Of Vegetation	or aigai	growin at the asse	essment site)		
Linguistra and St.	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	2057°	A CANALOR CONTRACTOR OF THE PROPERTY OF THE PR	کھرے ص	Outer Settler	کہ د		
are Sage	λ ₂ 2,	2 4 m	بر مير تايم تربر هي	2 J	Jag 30 20 10	-26 Pyc		
Water Charact	arietise							•
Odor:		Sewage	Musky ☐		Chemical	None	Other:	
Color:	<u>_</u>	Clear	Green	<u>-</u>	Gray	Milky	Other:	
Bottom Depos	it:	Sludge	☐ Solids		Fine sediments	None	Other:	-
Surface Depos	it: 📋	Oil	Scum		Foam	None	Other:	
			_					_
Comments: Ple	ase atta	ich addi	tional commer	its (incl	luding informat	tion from inte	rviews) to this i	orm.
								•
*This information i	s not to l	be used so	olely for removal	of a recr	eational use desig	nation but rather	is to provide a mo	ore
comprehensive und decision on the recr	lerstandir reation w	ng of wat	er conditions. Co	nsequen	tly, this information	on is not intende	d to directly influe	nce a
444 Mich ou 140 1001	vation u	ac attains	s out may ponk t	о сонан	ions that heet hav	ilei aiiziysis or u	iat effect abother t	3C ,
I, the undersign	ned, he	reby af	firm to the be	st of m	y knowledge,	that all infor	mation reporte	ed on this UAA
datasheet is tru	e and	accurat	e,					
Signed:	\mathcal{L}				Dian	W/0/-E		
orgiicu	-4				Date:_	7/9/05		
Organization: <u>W</u>	<u>lissouri</u>	Depart	ment of Natura	al Reso	urces Position	n: <u>Stream Bio</u>	logist	

3142_002_upstream



3142_002_downstream



Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

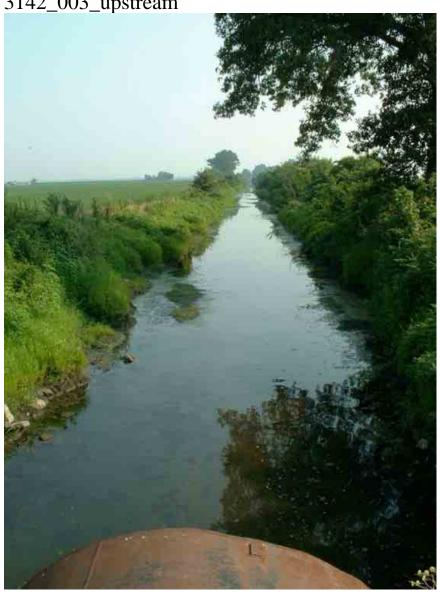
Missouri WBID #: 3,4			Site Location Description:				
Size CDS Coordinates	2003						
Site GPS Coordinates: 3	<u> </u>	8367	CO. 20 412 BR				
Date & Time: 7/9/0	<u> ৩ ১১১ ৮</u>	r\$.	Facility Name:				
Personnel: R. Duchrow			Permit Nur	nber:			
Current Weather Conditions: Cleare - Wazy			Weather Co	onditio	ns for Past 7 days: CARAR	- week Drought	
Photo Ids: Upstream; Op-0091 Downstream:			-0092	Other:			
			- 1 - 1				
Uses Observed*:	· · · · · · · · · · · · · · · · · · ·						
Swimming	☐ Swimming ☐ Skin diving ☐ SCI			JBA diving Tubing		☐ Water skiing	
☐ Wind surfing	☐ Kayaking	□Воа	ating		☐ Wading	Rafting	
Hunting	Trapping	☐ Fisl	hing	·	☑ None of the above	Other:	
Act of the Same							
Surrounding Condition items of interest.)	IS*: (Mark all that pron	note or im	pede recreati	onal us	es. Attach photos of evider	ice or unusual	
City/county parks	Playgrounds	MDC co	nservation la	nds	☐ Urban areas	Campgrounds	
☐ Boating accesses	State parks	National	forests			Stairs/walkway	
☐ No trespass sign	 	Steep sie	ME GANY	Me Oran Brother: Bral - Croph			
Evidence of Human Us	e*:					•	
Roads	☐ Foot paths/prints		ock/platform	1	Livestock Watering	RV / ATV Tracks	
☐ Rope swings	☐ Camping Sites	F	ire pit/ring		☐ NPDES Discharge	Fishing Tackle	
Other:							
							

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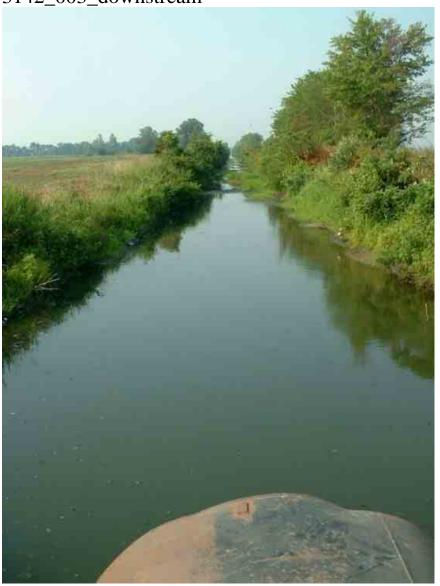
3142-003 Data Sheet B - Site Characterization

Page Two – Stream Mor Upstrean	phology:	,	imensions:					
Riffle	Width (ft):	·	Length (ft):	<u>.</u>	Avg. Depth (1	ft):	Max. Depth (ft)	
Run	Width (ft):	<u>کو</u> '	Length (ft):	(200	Avg. Depth (i	ft): 🔥	Max. Depth (ft)	2.5'
Pool	Width (ft):		Length (ft):		Avg. Depth (1	ft):	Max. Depth (ft)	:
Flow	Present?	⊡ ′Yes	□ No		Estimated (ft ¹	/sec):	K1 683	
Downstre	am View I	Physica	l Dimensions:					
Riffle	Width (ft):		Length (ft):		Avg. Depth (i	ft):	Max. Depth (ft)	:
∀ Run	Width (ft):	36	Length (ft):	3∞′	Avg. Depth (1	ft): 🌭 🕏 '	Max. Depth (ft)	: 1.5'
Pool	Width (ft):	50'	Length (ft):	100	Avg. Depth (Max. Depth (ft)	
Flow	Present?	Yes	☑No		Estimated (ft			
JE 57. 60 S.	St. Company of the	, Lo ¹ °	ount of pregetation	or algal grow			J. J	:
Water Char Odor:	racteristics		c all that apply.)		21		F" 04	
Color:		Sewage Clear	☐ Musky		emical	✓ None Milky	Other:	
Bottom D		Sludge		Gra انتا جنہ	e sediments	☐ None	Other:	
Surface D		Oil	☑ Scum o			None	Other:	
*This informat	tion is not to be understanding	ne used so	olely for removal er conditions. Co.	of a recreation	nal use design	ation but ra	nterviews) to this for ther is to provide a more inded to directly influence or that effect another use	e a
I, the under datasheet is				st of my kn	owledge, t	hat all inf	formation reported	on this UAA
Signed:	<i>₹</i>				Date:	7/9/9	05	
Organization	n: <u>Missouri</u>	Depart	ment of Natura	l Resource	s Position	: Stream I	Biologist	

3142_003_upstream



3142_003_downstream



Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 314	2-004		Site Location Description;			
Site GPS Coordinates:	Ab 8355b -89 b	18941	HWY CC BR			
Date & Time: 7/9/05	5 0915		Facility Name:			
Personnel: R. Duchrow		<i>N13</i>	Permit Number:		. <u>. </u>	
Current Weather Condition	Current Weather Conditions: Class - Hazy			ions for Past 7 days: CACO		
Photo Ids: Upstream: Downstream:					R - WELDY Drought	
L \c	<u> </u>	100	= 0094 Suc	4.		
Uses Observed*:						
Swimming	****			Tubing	☐ Water skiing	
☐ Wind surfing	☐ Kayaking	☐ Bo	ating	Wading	Rafting	
☐ Hunting	☐ Trapping	☐ Fis	hing	None of the above	Other:	
Describe: (include number	er of individuals recre	ating, frequ	ency of use, photo	-documentation of evidence	of recreational uses, etc.)	
25 35 g	ر در مو مو رو الموادي الموادي	÷ .				
, C	San	•				
Surrounding Condition	6 3	•	pede recreational	uses. Attach photos of evide	ence or unusual	
Surrounding Condition	6 7 7	omote or im		T_	Т	
Surrounding Condition items of interest.)	6. S*: (Mark all that pro	omote or im	enservation lands	Urban areas	Campgrounds	
Surrounding Condition items of interest.) City/county parks Boating accesses	6. Sis*: (Mark all that pro	omote or im MDC co	onservation lands forests	☐ Urban areas ☐ Nature trails	Campgrounds Stairs/walkway	
Surrounding Condition items of interest.)	6. Sis*: (Mark all that pro	omote or im MDC co	enservation lands	Urban areas	Campgrounds Stairs/walkway	
Surrounding Condition items of interest.) City/county parks Boating accesses No trespass sign	15*: (Mark all that pro	omote or im MDC co	onservation lands forests	☐ Urban areas ☐ Nature trails	Campgrounds Stairs/walkway	
Surrounding Condition items of interest.) City/county parks Boating accesses	15*: (Mark all that pro	omote or im MDC co National	onservation lands forests	☐ Urban areas ☐ Nature trails	Campgrounds Stairs/walkway	
Surrounding Condition items of interest.) City/county parks Boating accesses No trespass sign Evidence of Human Us Roads Rope swings	State parks Fence Foot paths/prints Camping Sites	omote or im MDC co National	nservation lands forests	☐ Urban areas ☐ Nature trails ☐ Other: Real - Cre	Campgrounds Stairs/walkway	
Surrounding Condition items of interest.) City/county parks Boating accesses No trespass sign Evidence of Human Us	State parks Fence Foot paths/prints Camping Sites	omote or im MDC co National	nservation lands forests Speek Common	☐ Urban areas ☐ Nature trails ☐ Other: Real _ Cro	Campgrounds Stairs/walkway	

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Page Two – WBID	•	Data Sheet B -	Site Characteri	zation			
Stream Morpholog	-	_					
Upstream View			Assa Darah /S		Max. Depth (ft):		
Riffle Width	· · · · · · · · · · · · · · · · · · ·	Length (ft):	Avg. Depth (fi				
Run Width		Length (ft):	Avg. Depth (f		Max. Depth (ft):		
Pool Width		Length (ft): 1200		<u> </u>	Max. Depth (ft):	ਖ′	
Flow Presen	t? 📝 Yes 🗌	No	Estimated (ft ³ ,	/sec): 3-5 e	<u>- 43</u>		
Downstream Vi	ew Physical Di	mensions:				· .	
Riffle Width	(ft):	Length (ft):	Avg. Depth (f	t):	Max. Depth (ft):		
☐ Run Width	(ft): 50°	Length (ft):	Avg. Depth (f	t): v.o'	Max. Depth (ft):	2,5	
Pool Width	(ft): 30'	Length (ft): 00	Avg. Depth (f		Max. Depth (ft):	э'	
☑ Flow Presen	t? ☑ Yes 🏻	No	Estimated (ft ³			,·	
Aquatic Vegetation	A SPORT OF ST	Solo Solo Children	al growth at the asses	sment site)	· · · · · · · · · · · · · · · · · · ·		
Odor:	☐ Sewage	Musky	Chemical	None	Other:		
Color:	☑ Clear	Green	☐ Gray	Milky	Other:		
Bottom Deposit:	Sludge	Solids	Fine sediments	None	Other:	-	
Surface Deposit:	☐ Oil	Scumple Scump	☐ Foam	None	Other:		
*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use. I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate. Signed: Date: 7/9/05							
Organization: Miss	ouri Departmer	nt of Natural Res	ources Position	: Stream Biol	ogist .		

3142_004_upstream



3142_004_downstream

